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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	("5,465,308").PN.	USPAT; USOCR	OR	OFF	2007/09/17 05:49
L2	53	"artificial neural network" and diagnostic and medical and query and test	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/17 05:49

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PAT. NO.	Title
1 7,228,295 T	Methods for selecting, developing and improving diagnostic tests for pregnancy-related conditions
2 7,187,790 T	Data processing and feedback method and system
3 7,136,710 T	Ergonomic man-machine interface incorporating adaptive pattern recognition based control system
4 7,058,515 T	Methods for making character strings, polynucleotides and polypeptides having desired characteristics
5 7,031,778 T	Temporary expanding integrated monitoring network
6 7,024,312 T	Methods for making character strings, polynucleotides and polypeptides having desired characteristics
7 6,985,779 T	Monitoring system for an industrial process using one or more multidimensional variables
8 6,853,920 T	Control for an industrial process using one or more multidimensional variables
9 6,658,396 T	Neural network drug dosage estimation
10 6,556,977 T	Methods for selecting, developing and improving diagnostic tests for pregnancy-related conditions
11 6,418,424 T	Ergonomic man-machine interface incorporating adaptive pattern recognition based control system
12 6,058,322 T	Methods for improving the accuracy in differential diagnosis on radiologic examinations
13 5,875,108 T	Ergonomic man-machine interface incorporating adaptive pattern recognition based control system
14 5,701,400 T	Method and apparatus for applying if-then-else rules to data sets in a relational data base and generating from the results of application of said rules a database of diagnostics linked to said data sets to aid executive analysis of financial data
15 5,465,308 T	Pattern recognition system
16 5,161,204 T	Apparatus for generating a feature matrix based on normalized out-class and in-class

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IET CNF	IET Conference Proceeding
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1 From informatics to bioinformatics

Vladimir B. Bajic, Vladimir Brusic, Jinyan Li, See-Kiong Ng, Limsoon Wong
January 2003 **Proceedings of the First Asia-Pacific bioinformatics conference on Bioinformatics 2003 - Volume 19 APBC '03**
Publisher: Australian Computer Society, Inc.
Full text available: ⬚ pdf(538.23 KB)   Additional Information: full citation, abstract, references, index terms

Informatics has helped in launching molecular biology into the genomic era. It appears certain that informatics will continue to be a major factor in the success of molecular biology in the post-genome era. In this paper, we describe advances made in data integration and data mining technologies that are relevant to molecular biology and biomedical sciences. In particular, we discuss some past and present research results on topics such as (a) the taming of autonomous heterogeneous distributed d ...

Keywords: Dragon, FIMM, Kleisli, PCL, PIES, bioinformatics, data integration, data warehousing, epitope prediction, gene expression analysis, protein interaction extraction, transcription start site recognition

2 Computer applications in health care: Embedded system for diagnosing dysfunctions in the lower urinary tract

David Gil, Antonio Soriano, Daniel Ruiz, C. Alberto Montejo
March 2007 **Proceedings of the 2007 ACM symposium on Applied computing SAC '07**
Publisher: ACM Press
Full text available: ⬚ pdf(232.56 KB)   Additional Information: full citation, abstract, references, index terms

A diagnosis is probably one of the most demanding tasks in medicine. The applications related to diagnose comprise medical and scientific tasks. This paper shows the development of an embedded system for medical diagnosis using self organizing artificial neural networks. It is proposed in order to classify/predict the dysfunctions of the lower urinary tract with ubiquitous and mobility features. This system is meant to help the urologists in obtaining swiftly and accurately an automatic diagn ...

Keywords: FPGA, diagnosis in urology, embedded systems, self organizing artificial neural networks

3 A robust framework for content-based retrieval by spatial similarity in image databases

Essam A. El-Kwae, Mansur R. Kabuka
April 1999 **ACM Transactions on Information Systems (TOIS)**, Volume 17 Issue 2

Publisher: ACM Press

Full text available: pdf(274.25 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

A framework for retrieving images by spatial similarity (FRISS) in ima ge databases is presented. In this framework, a robust retrieval by spatial similarity (RSS) algorithm is defined as one that incorporates both directional and topological spatial constraints, retrieves similar images, and recognized images even after they undergo translation, scaling, rotation (both perfect and multiple), or any arbitrary combination of transformatioins. The FRISS framework is discussed and used as a ba ...

Keywords: content-based retrieval, image databases, multimedia databases, query formulation, retrieval models, similarity retrieval, spatial similarity

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4 <u>Software Performance Engineering of a Web service-based Clinical Decision Support infrastructure</u>

January 2004 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 4th international workshop on Software and performance WOSP '04**, Volume 29 Issue 1

Publisher: ACM Press

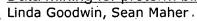Full text available: pdf(763.31 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

This paper has two contributions: a) it proposes a web services-based infrastructure to support Clinical Decision Support Systems (CDSSs) for processing multi-domain medical data from the obstetrical, perinatal and neonatal care domains, and b) applies Software Performance Engineering (SPE) to the proposed infrastructure. This extends a XML-based framework for medical data interoperability and integration of CDSSs into the Neonatal Intensive Care Unit, developed previously by the authors. The fr ...

Keywords: Clinical Decision Support Systems, Software Performance Engineering (SPE), Web services, XML, layered queuing networks

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5 <u>Data mining for preterm birth prediction</u>

Linda Goodwin, Sean Maher.

March 2000 **Proceedings of the 2000 ACM symposium on Applied computing - Volume 1 SAC '00**

Publisher: ACM Press

Full text available: pdf(517.20 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

Keywords: CART, data mining, logistic regression, neural networks

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6 <u>Selected M-Related Dissertations Bibliography</u>

November 1990 **ACM SIGART Bulletin**, Volume 2 Issue 1

Publisher: ACM Press
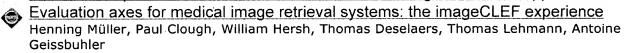
Full text available: pdf(1.98 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

The following are citations selected by title and abstract as being related to AI, resulting from a computer search, using BRS Information Technologies, of the Dissertation Abstracts Online data-base produced by University Microfilms International (UMI). **Agriculture, Animal Culture and Nutrition**

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7 <u>Brave new topics 3: advanced methods for medical image retrieval & applications: Evaluation axes for medical image retrieval systems: the imageCLEF experience</u>

Henning Müller, Paul Clough, William Hersh, Thomas Deselaers, Thomas Lehmann, Antoine Geissbuhler

November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**

Publisher: ACM Press

Full text available: pdf(529.81 KB)   Additional Information: full citation, abstract, references, index terms

Content--based image retrieval in the medical domain is an extremely hot topic in medical imaging as it promises to help better managing the large amount of medical images being produced. Applications are mainly expected in the field of medical teaching files and for research projects, where performance issues and speed are less critical than in the field of diagnostic aid. Final goal with most impact will be the use as a diagnostic aid in a real-- world clinical setting.Other applications of ima ...

Keywords: benchmarking, content--based image retrieval, evaluation, image retrieval, medical image retrieval

8   A survey on wavelet applications in data mining

Tao Li, Qi Li, Shenghuo Zhu, Mitsunori Ogihara

December 2002 **ACM SIGKDD Explorations Newsletter**, Volume 4 Issue 2

Publisher: ACM Press

Full text available: pdf(330.06 KB)   Additional Information: full citation, abstract, references, citings

Recently there has been significant development in the use of wavelet methods in various data mining processes. However, there has been written no comprehensive survey available on the topic. The goal of this is paper to fill the void. First, the paper presents a high-level data-mining framework that reduces the overall process into smaller components. Then applications of wavelets for each component are reviewd. The paper concludes by discussing the impact of wavelets on data mining research an ...

9   Medical document indexing and retrieval: Using semantic components to express clinical questions against document collections

Susan L. Price, Lois M. Delcambre, Marianne Lykke Nielsen

November 2006 **Proceedings of the international workshop on Healthcare information and knowledge management HIKM '06**

Publisher: ACM Press

Full text available: pdf(249.62 KB)   Additional Information: full citation, abstract, references, index terms

Inability to find answers to clinical questions is a major obstacle to obtaining just-in-time information during patient encounters. We have introduced a new model for describing the content of documents in domain-specific collections, using document classes and semantic components, that may supplement existing indexing and searching techniques and improve information retrieval. In this paper we describe the model and present the results of our investigations into using the model to represent cl ...

Keywords: semantic components

10   Special section: Reasoning about structure, behavior and function

B. Chandrasekaran, Rob Milne

July 1985 **ACM SIGART Bulletin**, Issue 93

Publisher: ACM Press

Full text available: pdf(5.13 MB)   Additional Information: full citation, abstract, references, citings

The last several years' of work in the area of knowledge-based systems has resulted in a deeper understanding of the potentials of the current generation of ideas, but more importantly, also about their limitations and the need for research both in a broader framework as well as in new directions. The following ideas seem to us to be worthy of note in this connection.

11

Announcements

Amruth Kumar
March 1999 **intelligence**, Volume 10 Issue 1
Publisher: ACM Press
Full text available: pdf(289.62 KB)   Additional Information: full citation, index terms
html(39.10 KB)

12 Answering Clinical Questions with Knowledge-Based and Statistical Techniques
Dina Demner-Fushman, Jimmy Lin
March 2007 **Computational Linguistics**, Volume 33 Issue 1
Publisher: MIT Press
Full text available: pdf(295.45 KB)   Additional Information: full citation, abstract, index terms

The combination of recent developments in question-answering research and the availability of unparalleled resources developed specifically for automatic semantic processing of text in the medical domain provides a unique opportunity to explore complex question answering in the domain of clinical medicine. This article presents a system designed to satisfy the information needs of physicians practicing evidence-based medicine. We have developed a series of knowledge extractors, which employ a ...

13 Interactive Semisupervised Learning for Microarray Analysis
Yijuan Lu, Qi Tian, Feng Liu, Maribel Sanchez, Yufeng Wang
April 2007 **IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)**, Volume 4 Issue 2
Publisher: IEEE Computer Society Press
Full text available: pdf(3.03 MB)   Additional Information: full citation, abstract, index terms

Microarray technology has generated vast amounts of gene expression data with distinct patterns. Based on the premise that genes of correlated functions tend to exhibit similar expression patterns, various machine learning methods have been applied to capture these specific patterns in microarray data. However, the discrepancy between the rich expression profiles and the limited knowledge of gene functions has been a major hurdle to the understanding of cellular networks. To bridge this gap so a ...

Keywords: Relevance Feedback, semisupervised learning, Kernel DEM, microarray analysis.

14 Book reviews
June 2000 **intelligence**, Volume 11 Issue 2
Publisher: ACM Press
Full text available: pdf(604.19 KB)   Additional Information: full citation, references, index terms
html(58.19 KB)

15 Tools for integrating and querying web information: MedISeek: a web based diffusion system for medical visual information
Silvio Antonio Carro, Jacob Scharcanski, José Valdeni de Lima
November 2003 **Proceedings of the 5th ACM international workshop on Web information and data management WIDM '03**
Publisher: ACM Press
Full text available: pdf(777.47 KB)   Additional Information: full citation, abstract, references, index terms
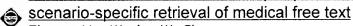
This paper presents a new metadata model to describe and retrieve medical visual information, such as images and their diagnoses, using the Web. The classes of this model allow to describe medical images of different modalities, including their properties, components and relationships. This model supports the international classification of diseases and related health problems (i.e. ICD-10)[1], and it has been used as a base for

the implementation of the MedISeek (Medical Image Seek) prototype. ...

Keywords: RDF, medical images, metadata, visual information retrieval, web

16 Information access and retrieval (IAR): Knowledge-based query expansion to support scenario-specific retrieval of medical free text

Zhenyu Liu, Wesley W. Chu

March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**

Publisher: ACM Press

Full text available: pdf(204.37 KB)   Additional Information: full citation, abstract, references, index terms

In retrieving medical free text, users are often interested in answers relevant to certain scenarios, scenarios that correspond to common tasks in medical practice, e.g., "treatment" or "diagnosis" of a disease. Consequently, the queries they pose are often scenario-specific, e.g., "lung cancer, treatment." A fundamental challenge in handling such queries is that scenario terms in the query (e.g. "treatment") are too general to match specialized terms in relevant documents (e.g. "lung excision") ...

Keywords: automatic query expansion, knowledge-based approach, medical free-text retrieval

17 Selected M-Related Dissertations Bibliography

February 1991 **ACM SIGART Bulletin**, Volume 2 Issue 2

Publisher: ACM Press

Full text available: pdf(986.54 KB)   Additional Information: full citation, abstract, references

The following are citations selected by title and abstract as being related to AI, resulting from a computer search, using BRS Information Technologies, of the Dissertation Abstracts Online database produced by University Microfilms International (UMI). **Business Administration, General**

18 A survey and analysis of Electronic Healthcare Record standards

Marco Eichelberg, Thomas Aden, Jörg Riesmeier, Asuman Dogac, Gokce B. Laleci

December 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 4

Publisher: ACM Press

Full text available: pdf(844.11 KB)   Additional Information: full citation, abstract, references, index terms

Medical information systems today store clinical information about patients in all kinds of proprietary formats. To address the resulting interoperability problems, several Electronic Healthcare Record standards that structure the clinical content for the purpose of exchange are currently under development. In this article, we present a survey of the most relevant Electronic Healthcare Record standards, examine the level of interoperability they provide, and assess their functionality in terms o ...

Keywords: Electronic Healthcare Record standards, eHealth, interoperability

19 Representation of medical guidelines using a classification-based system

C. Heinlein, K. Kuhn, P. Dadam

November 1994 **Proceedings of the third international conference on Information and knowledge management CIKM '94**

Publisher: ACM Press

Full text available: pdf(872.92 KB)   Additional Information: full citation, abstract, references, index terms

Medical guidelines play an increasing role in selecting diagnostic and therapeutic steps under the aspects of effectiveness, invasiveness, and costs. To work directly on patient data already available in electronic form, they should be integrated into a medical information system. In order to develop a "medical guideline module" (MGM) managing

and applying guidelines to patients, a "knowledge level" representation of guidelines is necessary which reflects the structu ...

20 Selected AI-Related Dissertations Bibliography

July 1991 **ACM SIGART Bulletin**, Volume 2 Issue 4

Publisher: ACM Press

Full text available: pdf(1.03 MB)   Additional Information: full citation, abstract, references

The following are citations selected by title and abstract as being related to AI, resulting from a computer search, using BRS Information Technologies, of the Dissertation Abstracts Online database produced by University Microfilms International (UMI).The online file includes abstracts, which are not published in this listing, but the citations below do include reference to the published Dissertation Abstracts International (DAI), which contains the abstracts. Other elements of the citation are ...

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21 Special section: Special issue on AI and Database research   ▬

Jonathan J. King
October 1983 **ACM SIGART Bulletin**, Issue 86
Publisher: ACM Press
Full text available: 📄 pdf(3.84 MB)   Additional Information: full citation, abstract

This collection of research summaries spans a very wide range of interests under the general heading of AI and Database research. In this introduction, I briefly describe the leading areas of interest that emerge from the reports submitted for this issue.

22 Special issue: AI in engineering   ▬

D. Sriram, R. Joobbani
April 1985 **ACM SIGART Bulletin**, Issue 92
Publisher: ACM Press
Full text available: 📄 pdf(8.79 MB)   Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

23 Conference abstracts   ▬

January 1977 **Proceedings of the 5th annual ACM computer science conference CSC '77**
Publisher: ACM Press
Full text available: 📄 pdf(3.14 MB)   Additional Information: full citation, abstract, index terms

One problem in computer program testing arises when errors are found and corrected after a portion of the tests have run properly. How can it be shown that a fix to one area of the code does not adversely affect the execution of another area? What is needed is a quantitative method for assuring that new program modifications do not introduce new errors into the code. This model considers the retest philosophy that every program instruction that could possibly be reached and tested from the ...

24 SASHA: the automatic generation of rule-based diagnostic expert systems   ▬

Anna Stein
June 1988 **Proceedings of the 1st international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1 IEA/AIE '88**
Publisher: ACM Press
Full text available: Additional Information:

pdf(522.64 KB)   full citation, abstract, references, index terms

SASHA is a model-driven application shell which generates expert systems for fault isolation and repair in complex electronic systems. SASHA incorporates an expert system shell and a knowledge acquisition tool into a unique mechanism that elicits data directly from the domain expert and outputs a rule-based diagnostic expert system. SASHA employs causal-model and rule-based representations. It uses a causal model to identify the structure, behavior and relation of a domain object ...

25 Announcements

Amruth Kumar
April 2000 **intelligence**, Volume 11 Issue 1
Publisher: ACM Press
Full text available: pdf(565.75 KB)   Additional Information: full citation, index terms
html(47.76 KB)

26 Computer applications in health care (CACH): MEDIC: MobilE Diagnosis for Improved Care

Eoin McLoughlin, Dympna O'Sullivan, Michela Bertolotto, David C. Wilson
April 2006 **Proceedings of the 2006 ACM symposium on Applied computing SAC '06**
Publisher: ACM Press
Full text available: pdf(304.65 KB)   Additional Information: full citation, abstract, references, index terms

Hospitals everywhere are taking advantage of the flexibility and speed of wireless computing to improve the quality and reduce the cost of healthcare. Caregivers equipped with mobile computers now have levels of interaction at the bedside not possible with traditional paper charts, and they can access accurate real-time information (patient records, medication and medical imagery) at the point-of-care to make decisions, diagnose and treat patients with greater speed and efficiency. Greater and m ...

27 Selected M-Related Dissertations

October 1989 **ACM SIGART Bulletin**, Issue 110
Publisher: ACM Press
Full text available: pdf(1.01 MB)   Additional Information: full citation, abstract, references

The following are citations selected by title and abstract as being related to AI, resulting from a computer search, using the BRS Information Technologies retrieval service, of the Dissertation Abstracts International (DAI) database produced by University Microfilms International.

28 Selected IR-Related Dissertation Abstracts

May 1991 **ACM SIGIR Forum**, Volume 25 Issue 1
Publisher: ACM Press
Full text available: pdf(2.71 MB)   Additional Information: full citation, abstract

The following are citations selected by title and abstract as being related to Information Retrieval (IR), resulting from a computer search, using BRS Information Technologies, of the Dissertation Abstracts Online database produced by University Microfilms International (UMI). Included are UMI order number, title, author, degree, year, institution; number of pages, one or more Dissertation Abstracts International (DAI) subject descriptors chosen by the author, and abstract. Unless otherwise spec ...

29 Business applications: Persisting and querying biometric event streams with hybrid relational-XML DBMS

Daby M. Sow, Lipyeow Lim, Min Wang, Kyu Hyun Kim
June 2007 **Proceedings of the 2007 inaugural international conference on Distributed event-based systems DEBS '07**
Publisher: ACM Press

Full text available: 📄 pdf(486.69 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Remote monitoring of patients' biometric data streams offers the possibility to physicians to extend and improve their services to chronically ill patients who are away from medical institutions. This emerging technology is a promising way to address important aspects of the cost issues that most health care systems are experiencing. In order to fulfill its potential, several challenges need to be overcome. First, the data collected needs to be filtered and annotated intelligently to help phy ...

Keywords: event processing, hybrid XML database, relational database, stream database, stream processing

30 <u>Searching for information in a hypertext medical handbook</u>

Mark,E. Frisse

July 1988 **Communications of the ACM**, Volume 31 Issue 7

Publisher: ACM Press

Full text available: 📄 pdf(844.47 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

Medicine is an ideal domain for hypertext applications and research. Implementing a popular medical handbook in hypertext underscores the need to study hypertext in the context of full-text document retrieval, machine learning, and user interface issues.

31 <u>Combining classifiers in text categorization</u>

Leah S. Larkey, W. Bruce Croft

August 1996 **Proceedings of the 19th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '96**

Publisher: ACM Press

Full text available: 📄 pdf(1.12 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

32 <u>Australasian Workshop on Health Knowledge Management and Discovery (HKMD 2007): Extracting semantics in a clinical scenario</u>

Yitao Zhang, Jon Patrick

January 2007 **Proceedings of the fifth Australasian symposium on ACSW frontiers - Volume 68 ACSW '07**

Publisher: Australian Computer Society, Inc.

Full text available: 📄 pdf(484.73 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

Unlike abstracts, full articles of clinical case studies provide more detailed profiles of a patient, such as signs and symptoms, and important laboratory·test results of the patient from the diagnostic and treatment procedures. This paper proposes a novel markup tag set to cover a wide variety of semantics in the description of clinical case studies in the clinical literature. A manually annotated corpus which consists of 75 clinical reports with 5,117 sentences has been created and a senten ...

Keywords: clinical profile, natural language processing, semantics

33 <u>Australasian Workshop on Health Knowledge Management and Discovery (HKMD 2007): Determining pattern element contribution in medical datasets</u>

Anna Shillabeer, Darius Pfitzner

January 2007 **Proceedings of the fifth Australasian symposium on ACSW frontiers - Volume 68 ACSW '07**

Publisher: Australian Computer Society, Inc.

Full text available: 📄 pdf(366.01 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

Presented are two novel solutions addressing issues in the application of automated data analysis techniques in the medical domain. The primary aim of our work is to provide

medical practitioners with patterns which can inform, and facilitate the development of subjective judgements regarding the content of those patterns. This is achieved by changing the focus of information evaluation and presentation from the broad pattern level to the finer pattern element level. We believe that our solut ...

Keywords: TFIDF, automated data analysis, element weighting, information theoretic, medical data mining, pattern element, pattern evaluation

34 Generic expert system shell for diagnostic reasoning

Wei-Han Chu
June 1988 **Proceedings of the 1st international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1 IEA/AIE '88**
Publisher: ACM Press

Full text available: pdf(619.10 KB)   Additional Information: full citation, abstract, references, citings, index terms

Rule based expert systems provide a modular and uniform approach to representing knowledge, however it has been recognized that rule-based systems become increasingly difficult to understand and maintain as the number of rules grow. Expert systems today are developed on general purpose inference shells that offer general purpose paradigms which do not take into considerations the type of problems being solved. It is up to the users to create the meta level control to prevent rule interferen ...

35 Knowledge and representation: Leveraging a common representation for personalized search and summarization in a medical digital library

Kathleen R. McKeown, Noemie Elhadad, Vasileios Hatzivassiloglou
May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries JCDL '03**
Publisher: IEEE Computer Society

Full text available: pdf(116.18 KB)   Additional Information: full citation, abstract, references, citings, index terms

Despite the large amount of online medical literature, it can be difficult for clinicians to find relevant information at the point of patient care. In this paper, we present techniques to personalize the results of search, making use of the online patient record as a sophisticated, pre-existing user model. Our work in *PERSIVAL*, a medical digital library, includes methods for re-ranking the results of search to prioritize those that better match the patient record. It also generates summa ...

36 Using the Internet to improve knowledge diffusion in medicine

William M. Detmer, Edward H. Shortliffe
August 1997 **Communications of the ACM**, Volume 40 Issue 8
Publisher: ACM Press

Full text available: pdf(576.05 KB)   Additional Information: full citation, references, citings, index terms, review

37 Research papers: mining biological and medical data: Subsequence matching on structured time series data

Huanmei Wu, Betty Salzberg, Gregory C Sharp, Steve B Jiang, Hiroki Shirato, David Kaeli
June 2005 **Proceedings of the 2005 ACM SIGMOD international conference on Management of data SIGMOD '05**
Publisher: ACM Press

Full text available: pdf(930.08 KB)   Additional Information: full citation, abstract, references

Subsequence matching in time series databases is a useful technique, with applications in pattern matching, prediction, and rule discovery. Internal structure within the time series data can be used to improve these tasks, and provide important insight into the problem

domain. This paper introduces our research effort in using the internal structure of a time series directly in the matching process. This idea is applied to the problem domain of respiratory motion data in cancer radiation treatme ...

38 A fuzzy ontology for medical document retrieval

David Parry

January 2004 **Proceedings of the second workshop on Australasian information security, Data Mining and Web Intelligence, and Software Internationalisation - Volume 32 ACSW Frontiers '04**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(218.48 KB)   Additional Information: full citation, abstract, references, index terms

Ontologies represent a method of formally expressing a shared understanding of information, and have been seen by many authors as a prerequisite for the "Semantic web". A mapping between query terms and members of an ontology is usually a key part of any ontology enhanced searching tool. However the relative importance of a particular mapping to an overloaded term may be different for different users, and this information is vital for accurate satisfaction of a query.One way of overcoming this p ...

Keywords: fuzzy logic, information retrieval, ontology, ontology combination

39 Towards new measures of information retrieval evaluation

William R. Hersh, Diane L. Elliot, David H. Hickam, Stephanie L. Wolf, Anna Molnar

July 1995 **Proceedings of the 18th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '95**

Publisher: ACM Press

Full text available: pdf(559.78 KB)   Additional Information: full citation, references, citings, index terms

40 Argumentative feedback: a linguistically-motivated term expansion for information retrieval

Patrick Ruch, Imad Tbahriti, Julien Gobeill, Alan R. Aronson

July 2006 **Proceedings of the COLING/ACL on Main conference poster sessions**

Publisher: Association for Computational Linguistics

Full text available: pdf(441.27 KB)   Additional Information: full citation, abstract, references

We report on the development of a new automatic feedback model to improve information retrieval in digital libraries. Our hypothesis is that some particular sentences, selected based on argumentative criteria, can be more useful than others to perform well-known feedback information retrieval tasks. The argumentative model we explore is based on four disjunct classes, which has been very regularly observed in scientific reports: PURPOSE, METHODS, RESULTS, CONCLUSION. To test this hypothesis, ...

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41 PERSIVAL, a system for personalized search and summarization over multimedia healthcare information
Kathleen R. McKeown, Shih-Fu Chang, James Cimino, Steven Feiner, Carol Friedman, Luis Gravano, Vasileios Hatzivassiloglou, Steven Johnson, Desmond A. Jordan, Judith L. Klavans, André Kushniruk, Vimla Patel, Simone Teufel
January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries JCDL '01**
Publisher: ACM Press

Full text available: 📄 pdf(369.13 KB)   Additional Information: full citation, abstract, references, citings, index terms

In healthcare settings, patients need access to online information tha t can help them understand their medical situation. Physicians need information that is clinically relevant to an individual patient. In this paper, we present our progress on developing a system, PERSIVAL, that is designed to provide personalized access to a distributed patient care digital library. Using the secure, online patient records at New York Presbyterian Hospital as a user model, PERSIVAL's components tailor s ...

Keywords: medical digital library, multimedia, natural language, personalization, query interface, search, summarization

42 Searching for information in a hypertext medical handbook
Mark Edwin Frisse
November 1987 **Proceeding of the ACM conference on Hypertext HYPERTEXT '87**
Publisher: ACM Press

Full text available: 📄 pdf(874.93 KB)   Additional Information: full citation, abstract, references, citings, index terms

Effective information retrieval from large medical hypertext systems will require a combination of browsing and full-text document retrieval techniques. Using a prototype hypertext medical therapeutics handbook, I discuss one approach to information retrieval problems in hypertext. This approach responds to a query by initially treating each hypertext card as a full-text document. It then utilizes information about document structure to propagate weights to neighboring cards and pro ...

43 Medical applications of genetic and evolutionary computation: Evolutionary hypernetwork models for aptamer-based cardiovascular disease diagnosis
JungWoo Ha, JaeHong Eom, SungChun Kim, ByoungTak Zhang
July 2007 **Proceedings of the 2007 GECCO conference companion on Genetic and evolutionary computation GECCO '07**

Publisher: ACM Press

Full text available: pdf(297.58 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

We present a biology-inspired probabilistic graphical model, called the hypernetwork model, and its application to medical diagnosis of disease. The hypernetwork models are a way of simulated DNA computing. They have a set of hyperedges representing a subset of features in the training data. These characteristics allow the hypernetwork models to work similarly to associative memories and make their learning results more understandable. This comprehensibility is one of main advantages of the m ...

Keywords: aptamer, cardiovascular disease, diagnosis, evolutionary computation, hypergraph, hypernetwork

44 Healthcare data integration and exchange: A flexible approach for electronic medical records exchange

Vagelis Hristidis, Peter J. Clarke, Nagarajan Prabakar, Yi Deng, Jeffrey A. White, Redmond P. Burke

November 2006 **Proceedings of the international workshop on Healthcare information and knowledge management HIKM '06**

Publisher: ACM Press

Full text available: pdf(3.17 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Many methodologies have been proposed in the last decade for integration and exchange of medical data. However, little progress has occurred due to the following reasons. First, patients are reluctant to give full access to their historical medical data. Second, institutions are reluctant to open their systems to mediators or any type of external access, due to security, privacy (HIPAA, unique patient id) and competitive advantage-related reasons.

Keywords: HIPAA, electronic medical record, exchange of medical records, patient record information systems

45 Semantics: The role of knowledge in conceptual retrieval: a study in the domain of clinical medicine

Jimmy Lin, Dina Demner-Fushman

August 2006 **Proceedings of the 29th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '06**

Publisher: ACM Press

Full text available: pdf(206.08 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Despite its intuitive appeal, the hypothesis that retrieval at the level of "concepts" should outperform purely term-based approaches remains unverified empirically. In addition, the use of "knowledge" has not consistently resulted in performance gains. After identifying possible reasons for previous negative results, we present a novel framework for "conceptual retrieval" that articulates the types of knowledge that are important for information seeking. We instantiate this general framework in ...

Keywords: question answering, reranking, semantic models

46 Brave new topics session 2 - multimedia signal processing and systems in healthcare and life science: Concept-based electronic health records: opportunities and challenges

Shahram Ebadollahi, Anni R. Coden, Michael A. Tanenblatt, Shih-Fu Chang, Tanveer Syeda-Mahmood, Arnon Amir

October 2006 **Proceedings of the 14th annual ACM international conference on Multimedia MULTIMEDIA '06**

Publisher: ACM Press

Full text available: pdf(505.73 KB)   Additional Information: full citation, abstract, references, index terms

Healthcare is a data-rich but information-poor domain. Terabytes of multimedia medical data are being generated on a monthly basis in a typical healthcare organization in order to document patients' health status and care process. Government and health-related organizations are pushing for fully electronic, cross-institution, integrated Electronic Health Records to provide a better, cost effective and more complete access to this data. However, provision of efficient access to the content of suc ...

Keywords: concept detection, electronic health records, medical decision support, multimedia analytics

47 GPGPU: general purpose computation on graphics hardware
David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: pdf(63.03 MB)   Additional Information: full citation, abstract, citings

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

48 Putting the expert in charge: graphical knowledge acquisition for fault diagnosis and repair
L. L. Rodi, J. A. Pierce, R. E. Dalton
April 1989 **ACM SIGART Bulletin**, Issue 108

Publisher: ACM Press

Full text available: pdf(631.14 KB)   Additional Information: full citation, abstract, references, index terms

Thesis: With respect to the fault diagnosis and repair problem,• experts who are not programmers can work alone to specify test and repair plans and make use of a natural idiom;• a graphical interface can be built which limits keyboard input and avoids natural language headaches;• consistency checking to prevent cycles and redundancies in test/repair sequences can be carried out during knowledge acquisition prior to running the resulting diagnostic routines;• ...

49 An object-oriented model for a multimedia patient folder management system
Fernando Ferri, Domenico M. Pisanelli, Fabrizio L. Ricci
April 1996 **ACM SIGBIO Newsletter**, Volume 16 Issue 1

Publisher: ACM Press

Full text available: pdf(1.32 MB)   Additional Information: full citation, abstract, index terms

The management of information related to clinical activities is a complex task. In fact, patient related information reported in patient folders comes from heterogeneous sources and may be rendered by means of different modalities. Data can originate from direct observations made by physicians like in the case of objective examination. In other cases physiologic phenomena are captured by means of the involved electrical activity (like in the case of heart or brain activity), whereas anatomical s ...

Keywords: data modelling, object-oriented modelling, patient folder

50 Text analysis: "Expertness" from structured text?: RECONSIDER: a diagnostic prompting program
Mark S. Tuttle, David D. Sherertz, Marsden S. Blois, Stuart Nelson

February 1983 **Proceedings of the first conference on Applied natural language processing**
Publisher: Association for Computational Linguistics
Full text available: pdf(650.67 KB)
Additional Information: full citation, abstract, references
Publisher Site

RECONSIDER is an interactive diagnostic prompting program which uses simple information retrieval techniques to prompt a physician regarding possible diagnoses, given a list of positive patient findings. Its knowledge base consists of "structured text" definitions of 3262 diseases and a synonym dictionary Patient findings, and their synonyms, are matched against inverted files of terms from the disease descriptions, the number and selectivity of the patient findings matching terms in a gi ...

51 Mini-buckets: A general scheme for bounded inference

Rina Dechter, Irina Rish
March 2003 **Journal of the ACM (JACM)**, Volume 50 Issue 2
Publisher: ACM Press

Full text available: pdf(902.27 KB)
Additional Information: full citation, abstract, references, citings, index terms

This article presents a class of approximation algorithms that extend the idea of bounded-complexity inference, inspired by successful constraint propagation algorithms, to probabilistic inference and combinatorial optimization. The idea is to bound the dimensionality of dependencies created by inference algorithms. This yields a parameterized scheme, called *mini-buckets*, that offers adjustable trade-off between accuracy and efficiency. The mini-bucket approach to optimization problems, s ...

Keywords: Accuracy/complexity trade-off, Bayesian networks, approximation algorithms, combinatorial optimization, probabilistic inference.

52 Session: query processing: Nonprocedural query processing for databases with access paths

N. D. Griffeth
May 1978 **Proceedings of the 1978 ACM SIGMOD international conference on management of data SIGMOD '78**
Publisher: ACM Press
Full text available: pdf(899.97 KB)   Additional Information: full citation, abstract, references, citings

The use of "rules of inference" in database systems with access paths--e.g., CODASYL and IMS databases--is proposed to allow nonprocedural querying of the database systems. The kinds of access paths for which these rules of inference are required are isolated. It is shown that the rules of inference required for a CODASYL or an IMS database depend on the configurations of the edges in a diagram of the database.

Keywords: data base task group, data independence, logical view of data, network model, nonprocedural query processing, relational model

53 Artificial intelligence

Elaine Rich
January 1983 Book
Publisher: McGraw-Hill, Inc.
Additional Information: full citation, abstract, references, cited by, review

The goal of this book is to provide programmers and computer scientists with a readable introduction to the problems and techniques of artificial intelligence (A.I.). The book can be used either as a text for a course on A.I. or as a self-study guide for computer professionals who want to learn what A.I. is all about.

The book was designed as the text for a one-semester, introductory graduate course in A.I. In such a course, it should be possible to cover all of the material in the boo ...

54 Industrial/government track: Clinical and financial outcomes analysis with existing hospital patient records
R. Bharat Rao, Sathyakama Sandilya, Radu Stefan Niculescu, Colin Germond, Harsha Rao
August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '03**
Publisher: ACM Press

Full text available: pdf(188.40 KB)   Additional Information: full citation, abstract, references, citings, index terms

Existing patient records are a valuable resource for automated outcomes analysis and knowledge discovery. However, key clinical data in these records is typically recorded in unstructured form as free text and images, and most structured clinical information is poorly organized. Time-consuming interpretation and analysis is required to convert these records into structured clinical data. Thus, only a tiny fraction of this resource is utilized. We present REMIND, a Bayesian Framework for Reliable ...

Keywords: Bayes Nets, HMMs, data mining, temporal reasoning

55 Tools & techniques: NodeMD: diagnosing node-level faults in remote wireless sensor systems
Veljko Krunic, Eric Trumpler, Richard Han
June 2007 **Proceedings of the 5th international conference on Mobile systems, applications and services MobiSys '07**
Publisher: ACM Press
Full text available: pdf(1.87 MB)   Additional Information: full citation, abstract, references, index terms

Software failures in wireless sensor systems are notoriously difficult to debug. Resource constraints in wireless deployments substantially restrict visibility into the root causes of node-level system and application faults. At the same time, the high cost of deployment of wireless sensor systems often far exceeds the cumulative cost of all other sensor hardware, so that software failures that completely disable a node are prohibitively expensive to repair in real world applications, e.g. by on ...

Keywords: deployment, diagnosis, software fault, wireless sensor networks

56 The FINITE STRING Newsletter: Abstracts of current literature
Computational Linguistics Staff
January 1987 **Computational Linguistics,** Volume 13 Issue 1-2
Publisher: MIT Press
Full text available: pdf(6.15 MB)   Additional Information: full citation
Publisher Site

57 A social sense of time: A finger on the pulse: temporal rhythms and information seeking in medical work
Madhu Reddy, Paul Dourish
November 2002 **Proceedings of the 2002 ACM conference on Computer supported cooperative work CSCW '02**
Publisher: ACM Press
Full text available: pdf(165.74 KB)   Additional Information: full citation, abstract, references, citings, index terms

Most cooperative work takes place in information-rich environments. However, studies of "information work" tend to focus on the decontextualized access and retrieval problems

faced by individual information seekers. Our work is directed towards understanding how information management is seamlessly integrated into the course of everyday activities. Drawing on an ethnographic study of medical work, we explore the relationship between information and temporal coordination and discuss the role of t ...

Keywords: information seeking, medical work, rhythms

58 Medical WordNet: a new methodology for the construction and validation of information resources for consumer health
Barry Smith, Christiane Fellbaum
August 2004 **Proceedings of the 20th international conference on Computational Linguistics COLING '04**
Publisher: Association for Computational Linguistics
Full text available: pdf(134.12 KB)   Additional Information: full citation, abstract, references

A consumer health information system must be able to comprehend both expert and nonexpert medical vocabulary and to map between the two. We describe an ongoing project to create a new lexical database called Medical WordNet (MWN), consisting of medically relevant terms used by and intelligible to non-expert subjects and supplemented by a corpus of natural-language sentences that is designed to provide medically validated contexts for MWN terms. The corpus derives primarily from online health inf ...

59 Selected IR-Related Dissertation Abstracts
February 1992 **ACM SIGIR Forum**, Volume 26 Issue 1
Publisher: ACM Press
Full text available: pdf(2.24 MB)   Additional Information: full citation

60 Selected IR-Related Dissertation Abstracts
March 1993 **ACM SIGIR Forum**, Volume 27 Issue 1
Publisher: ACM Press
Full text available: pdf(2.24 MB)   Additional Information: full citation, abstract

The following are citations selected by title and abstract as being related to Information Retrieval (IR), resulting from a computer search, using BRS Information Technologies, of the Dissertation Abstracts Online database produced by University Microfilms International (UMI). Included are UMI order number, title, author, degree, year, institution; number of pages, and abstract. Unless otherwise specified, paper or microform copies of dissertations may be ordered from University Microfilms Inter ...

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